INTERNATIONAL SEARCH REPORT

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 F15B15/19

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) IPC 7 F15C F15B F42B F42C

Documentation searched other than minimum documentation to the extent that such documents are included. In the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, COMPENDEX, INSPEC, IBM-TDB

Category °	Citation of document, with indication, where appropriate, of the relevant passages	1,12	
Α	WO 02/088551 A (PERUT CHRISTIAN; ROLLER DENIS (FR); POUDRES & EXPLOSIFS STE NALE (FR)) 7 November 2002 (2002-11-07) cited in the application abstract; figure 1		
A	WO 98/22719 A (ESTEVE DANIEL; MIKLER CLAUDE (FR); TEILLAUD ERIC (FR); MILLOT PHILIPP) 28 May 1998 (1998-05-28) cited in the application abstract; figures 2,8,9	1,12	
A	US 2002/088890 A1 (BOWERS PAUL A ET AL) 11 July 2002 (2002-07-11) paragraphs '0056!, '0057!, '0060!; figure 8	1,12	

Further documents are listed in the continuation of box C.	Patent family members are listed in annex.
Special categories of cited documents: 'A' document defining the general state of the art which is not considered to be of particular relevance 'E' earlier document but published on or after the international filling date 'L' document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) 'O' document referring to an oral disclosure, use, exhibition or other means 'P' document published prior to the international filling date but later than the priority date claimed	 'T' later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention 'X' document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone 'Y' document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. '&' document member of the same patent family
Date of the actual completion of the International search 19 May 2005	Date of mailing of the international search report 25/05/2005
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer SLEIGHTHOLME, G

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Internation No
PCT/FR2005/050034

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